cumulative index 2004

cumulative index 2004

Notation:

Article title . . . . . .[month page number]

Example: . . . . . .06 — 35 = June 2004, page 35

Cumulative Indexes 1996 - 2004 also available from www.elektor-electronics.co.uk (Free Downloads)

Audio/ Video / Photography

Audio Power Amps on the Internet . . . . . .04 — 68
Canon EOS Cameras go Wireless . . . . . .07 — 102
ClariTy 2 x 300 W Class-T Amplifier (1) . . . . . .06 — 24
ClariTy 2 x 300 W Class-T Amplifier (2) . . . . . .09 — 70
ClariTy 2 x 300 W Class-T Amplifier (3) . . . . . .10 — 50
Codec Complete . . . . . .07 — 67
High Voltage Amplifier . . . . . .12 — 18
High-End Preamp (1) . . . . . .04 — 10
High-End Preamp (2) . . . . . .05 — 16
LM4096 Boomer Audio Power Amp . . . . . .12 — 41
Noise Suppression Filters . . . . . .11 — 50
OTL Headphone Amplifier . . . . . .01 — 40
Pandora's Sound & Music Box . . . . . .04 — 52
RIAA Preamplifier with FETs . . . . . .01 — 28
Simple Audio Peak Detector . . . . . .12 — 37
Slave Flash for Digital Cameras . . . . . .10 — 58
That's Class... . . . . .06 — 18

Computers / Software / Internet

Analog University . . . . . .06 — 55
Analogue Filter Design . . . . . .01 — 72
Digital Isolation up to 100 MBit/s . . . . . .07 — 58
Dream Team (DRM) . . . . . .04 — 32
Elektor Electronics Year Volume CD-ROMs on Hard Disk . . . . . .04 — 17
Equations, equations . . . . . .11 — 42
Home Network for ADSL . . . . . .07 — 81
I²C / USB Interface . . . . . .12 — 52
I²C Home Bus . . . . . .12 — 60
IIR Tool . . . . . .12 — 36
Line-2-mic for Notebook . . . . . .10 — 76
Measurement and Control via the Internet . . . . . .07 — 28
Micro Webserver . . . . . .07 — 12
Monitor Life Xtender . . . . . .07 — 40
Of Mice and Light . . . . . .04 — 58
On-line Conversions . . . . . .12 — 39
Parallel Port Switching Interface . . . . . .02 — 38
Profilab-Expert . . . . . .10 — 32
Programming with Word . . . . . .06 — 69
Proteus VSM . . . . . .09 — 56
Remote Control for your PC . . . . . .02 — 64
SATA . . . . . .12 — 47
Software? We'll do that ourselves! (stepper motors) 05 — 64
Soundcard as Test Instrument . . . . . .10 — 40
Tomi Engdahl, the man behind Epanorama.net . . . .07 — 120
Up, up and away . . . . . .05 — 39
USB Converter Controlled via HTML . . . . . .07 — 65
USB Memory Stick . . . . . .10 — 74
Virtual Soldering (LabView) . . . . . .10 — 28
Wireless USB . . . . . .09 — 08
Working with ActiveX . . . . . .07 — 112

Hobby & Modelling

Bike Tail Light with Standlight . . . . . .09 — 40
Bluish Flasher . . . . . .07 — 74
Digital Motors . . . . . .06 — 62
Discrete Robot . . . . . .12 — 25
Ear Boggle . . . . . .11 — 70
Electronic Switch for Modellers . . . . . .07 — 116
Electronic Valentine Heart . . . . . .02 — 56
Flickering Light II . . . . . .12 — 35
FMS Flight Simulator Encoder . . . . . .01 — 22
Four in a Row . . . . . .10 — 66
Intelligent Flickering Light . . . . . .07 — 38
IR Servo Motor Interface for RCX . . . . . .07 — 88
Irregular Flasher . . . . . .07 — 46
LED Christmas Tree . . . . . .12 — 72
LED Light Pen . . . . . .07 — 48
LED Roulette . . . . . .01 — 52
Low-power LED Flash . . . . . .04 — 60
Model Railway Short-Circuit Beeper . . . . . .12 — 42
Multichannel Failsafe for Radio Controlled Models .03 — 36
One-Component Metal Detector . . . . . .10 — 76
On-train Radio Camera . . . . . .12 — 33
Personal Sound to Light Unit . . . . . .06 — 58
Pocket Pong . . . . . .06 — 50
Pseudo Track Occupancy Detector . . . . . .07 — 50
R/C Analyser . . . . . .07 — 96
Rail Router . . . . . .06 — 64
Relaxation Machine . . . . . .01 — 50
Resounding Truth . . . . . .05 — 56
Rolling Dice . . . . . .09 — 34
Smooth Operator . . . . . .06 — 38
Steam Whistle . . . . . .07 — 66
Unusual LED Blinker . . . . . .12 — 30
UV Torch Light . . . . . .07 — 62
Whistling Kettle . . . . . .07 — 54

Home & Garden

Back to the Future . . . . . .12 — 16
Burglar Alarm . . . . . .01 — 46
Code Lock . . . . . .03 — 52
Digital Alarm Clock . . . . . .02 — 18
Doorbell Cascade . . . . . .07 — 35
Home Network for ADSL . . . . . .07 — 81
I²C Home Bus . . . . . .12 — 60
iAccess . . . . . .02 — 42

IR Multi-Position Switch . . . . . .12 — 40
IR Transmitter with HT12E . . . . . .12 — 50
Multi-event Alarm Clock . . . . . .01 — 32
On the Buses . . . . . .12 — 12
Simple Darkness Activated Alarm . . . . . .07 — 33
Wind Speed & Direction Meter . . . . . .05 — 24
You have Mail! . . . . . .07 — 57

Informative / Educational

Bogus Electronic Parts . . . . . .09 — 66
Bring out your Dead (recycling electronics) . . . . . .11 — 30
Continuous Flow Soldering . . . . . .12 — 70
Design your Own IC (1) . . . . . .05 — 10
Design your Own IC (2) . . . . . .06 — 32
Foil Capacitor Polarity . . . . . .02 — 35
Light Sensor Technology . . . . . .07 — 82
Modern SMD Packages . . . . . .12 — 48
Project c+ . . . . . .04 — 28
Project c+ Solved . . . . . .05 — 36
Quizz'away: energy transfer . . . . . .11 — 79
Quizz'away: high-gain transistor amplifier . . . . . .10 — 79
Quizz'away: infinite resistor array . . . . . .09 — 80
Quizz'away: wondrous light chain . . . . . .12 — 78
Ready, Steady, Fatty (body fat meters) . . . . . .11 — 74
Resistor-Equipped Transistors (RETs) . . . . . .12 — 43
Wind Power . . . . . .03 — 56
YEDA & Young Engineers for Britain . . . . . .10 — 10

Microcontrollers

500 Links on Microcontrollers . . . . . .03 — 64
64-K 80C552 Flash Board . . . . . .01 — 60
Alternatives for Battery-Backed RAM . . . . . .04 — 39
Blackfin DSP Development Kit . . . . . .03 — 60
Bluetooth Remote Control . . . . . .09 — 48
Code Lock . . . . . .03 — 52
CoolRunner-II . . . . . .02 — 52
Data Storage on Compact Flash Cards . . . . . .03 — 46
Drop-in Microcontroller Board . . . . . .04 — 62
DSPs at 1 GHz . . . . . .04 — 68
FlexiPanel IR (IrDA) . . . . . .05 — 40
Free PICProg . . . . . .06 — 54
Goodbye '16, Welcome PIC18F (1) . . . . . .10 — 62
Goodbye '16, Welcome PIC18F (2) . . . . . .11 — 38
Hands-On CPLDs (1) . . . . . .02 — 12
Hands-On CPLDs (2) . . . . . .03 — 28
iAccess . . . . . .02 — 42
IR Servo Motor Interface for RCX . . . . . .07 — 88
Micro Webserver . . . . . .07 — 12
Microcontroller Buyers Guide . . . . . .09 — 16
Multi Programmer . . . . . .06 — 10
Pandora's Sound & Music Box . . . . . .04 — 52
PICXEX18 and PICWin18 . . . . . .11 — 34
R/C Analyser . . . . . .07 — 96
Reset IC with Selectable Voltages . . . . . .07 — 39
Reset Sequencer . . . . . .07 — 44
Swiss Army Knife . . . . . .09 — 22
Trends in Microcontrollers . . . . . .09 — 10
TV Commercials Killer . . . . . .07 — 20
USB Embedded Host Controller . . . . . .09 — 58
Xilinx JTAG Interface . . . . . .07 — 79
Xport . . . . . .07 — 80

Miscellaneous Electronics

30-mA LED Dimmer . . . . . .11 — 76
Bistable Relay Driver . . . . . .11 — 66
Blinker Indicator . . . . . .07 — 62
Car Central-Locking System . . . . . .12 — 26
CMOS Crystal Frequency Multiplier . . . . . .07 — 34
Combi-gate Oscillator IC . . . . . .05 — 60
Digital Motors . . . . . .06 — 62
Dimmer with a MOSFET . . . . . .12 — 24
Direction-Sensitive Light Barrier . . . . . .12 — 22
DIY RF Inductors . . . . . .02 — 24
Electrical Safety page . . . . . .07 — 122
EMC page . . . . . .07 — 124
First Steps (stepper motors) . . . . . .05 — 30
Foil Capacitor Polarity . . . . . .02 — 35
Gated Alarm . . . . . .07 — 44
HV9901 (Application Note) . . . . . .01 — 36
I²C and SMBus . . . . . .12 — 29
Luxury Car Interior Light . . . . . .07 — 53
MAX6954 Display Driver . . . . . .07 — 106
Motor Turn/Stall Detector . . . . . .07 — 63
On/Off Button . . . . . .12 — 31
One Component Oscillator for 1 to 10 MHz . . . . . .07 — 58
Power Flip-Flop Using a Triac . . . . . .07 — 59
Pressing Matters with Flatcable Connectors . . . . . .05 — 62
Programmable-Gain Amplifier . . . . . .07 — 55
Push Off / Push On . . . . . .07 — 70
PWM Modulator . . . . . .07 — 78
Relay Coil Energy Saver . . . . . .07 — 72
Reset from Multiple Power Supplies . . . . . .07 — 47
Self-tapping Screws . . . . . .05 — 62
Simple Infrared Control Extender . . . . . .07 — 56
Stepper Motor Generator . . . . . .07 — 37
Temperature Switches in SOT packages . . . . . .04 —40
The Eternal 555 . . . . . .07 — 39
Thermoelements . . . . . .11 — 56
Thrifty 2-Hz Clock . . . . . .12 — 38
Through-hole Plating Double-sided PCBs . . . . . .04 — 39
Touch-controlled Switch . . . . . .02 — 36
Ultra Low-profile IC Socket . . . . . .10 — 76
USB Cyberclocks . . . . . .11 — 46
Very Low Power 32-kHz Oscillator . . . . . .07 — 74
White LED Lamp . . . . . .07 — 46
Zero Gain Mod for Non-Inverting Opamp . . . . . .07 — 33

continued overleaf

cumulative index 2004

Power Supplies & Batteries

100 V Regulators .....07 — 36
3.3 V or 5 V Direct from the Mains .....07 — 41
5 volts from the Mains .....12 — 28
ABC of Rechargeable Batteries .....11 — 14
Adjustable Zener Diode .....07 — 43
AVR450 Battery Charger (Application Note) .....03 — 40
Battery Charging on USB .....11 — 76
Battery Polarity Protection .....07 — 110
BTX .....12 — 27
Buck/Boost Voltage Converter .....07 — 60
Global Power Supply .....05 — 61
Inductorless 3-to-5 Volts Converter .....07 — 76
Lifespan of Li-Ion Batteries .....07 — 42
Low-Drop Constant Current Source .....12 — 46
Mains Failure Alarm .....07 — 70
Master/Slave Switch .....07 — 75
Negative Auxiliary Voltage .....12 — 21
NiMH Charger for up to six Cells .....12 — 32
Power Supply for USB Devices .....12 — 71
Repairing the Damage Caused by Leaking Batteries 04 — 38
Save Energy .....07 — 50
Sealed Lead-Acid Batteries .....11 — 26
Simple 12-to-230 V Power Inverter .....02 — 30
Simple NiCd Charger .....07 — 51
SMPSU with a Relay .....07 — 36
Solar-Powered High Efficiency Charger .....07 — 64
Stable Filament Supply .....12 — 49
Stable Zener Reference .....07 — 77
Storage Battery Exerciser .....07 — 48
Switchless NiCd/NiMH Charger .....07 — 35
Triple Power Supply .....07 — 49
Universal Mains Filter .....12 — 34
Vehicle Battery Jogger .....11 — 20
Voltage Monitor .....12 — 38
Voltage Regulator Calculation .....12 — 71

Radio & TV

2 Transistors, 1 Crystal, that's it (DRM) .....04 — 41
Automatic Preselector .....11 — 60
Bluetooth Remote Control .....09 — 48
Build Your Own DRM Receiver .....03 — 12
Canon EOS Cameras go Wireless .....07 — 102
DIY RF Inductors .....02 — 24
Dream Team (DRM) .....04 — 32
Linear RF Power Meter .....07 — 42
RF Control Interface .....10 — 76
Shortwave Monitor .....07 — 72
Single-Chip VHF RF Preamp .....07 — 66
SSB Add-On for AM Receivers .....07 — 56
Ten Years After (DAB) .....06 — 44
Tuned Radio Frequency (TRF) Receiver .....07 — 76
TV Commercials Killer .....07 — 20
VHF-Low Explorer .....04 — 18
Wavecatcher .....04 — 44

Test and Measurement

Acoustic Sensor .....07 — 79
Air Quality Sensor .....10 — 46
Airflow Monitor .....07 — 32
Attitude Sensor .....12 — 20
Climate Logger .....01 — 12
Heathkit TC2-P Tube Checker (Retronics) .....12 — 69
Linear RF Power Meter .....07 — 42
Long-Interval Pulse Generator .....07 — 45
Mains Voltage Monitor .....07 — 61
Measurement and Control via the Internet .....07 — 28
Meter Adapter with Symmetrical Input .....07 — 71
Multifunction Frequency Meter .....03 — 20
Poor Man's 1-GHz Probe .....10 — 36
Precision Function Generator .....06 — 56
R/C Analyser .....07 — 96
Room Thermometer .....11 — 62
Scope for 'Scopes: 22 oscilloscopes tested .....10 — 14
Sensors for Humans .....05 — 50
Sensors go Systematic .....05 — 44
Servo Tester using a 4538 .....07 — 64
Simple Audio Peak Detector .....12 — 37
Soundcard as Test Instrument .....10 — 40
The Sense Resistor .....01 — 56
Two-LED Voltage Indicator .....07 — 73
Voltage & Continuity Tester .....03 — 50
Voltage Levels Control Relays .....07 — 52
Voltage Monitor .....12 — 38
Wind Speed & Direction Meter .....05 — 24
Wireless Tyre Pressure Monitoring .....05 — 69

Corrections and Updates

Atmel Programmer (09/2001) .....10 — 09
Canon EOS Cameras go Wireless (07/2004) .....10 — 09
Digital Logic Compared (12/2003) .....02 — 41
Directional Microphone (11/2003) .....01 — 74
Electric Charge Meter (11/2003) .....01 — 74
FMS Flight Simulator Encoder (01/2004) .....05 — 73
Lambda Probe Readout
for Carburettor Tuning (07/2003) .....05 — 73
LED Roulette (01/2004) .....05 — 73
MIDI Lights and Slide Control (03/2001) .....06 — 73
PICProg2003 FAQ (09/2003) .....02 — 41
Rev Counter for R/C Models (11/2003) .....01 — 74
Seconds and Minutes from DCF77 (07/2003) .....05 — 73
Stepper Motors Uncovered (2) (12/2003) .....05 — 73
Supercap Battery .....01 — 74
USB-RS232 Interface (04/2003) .....01 — 74